CLAIMS

Claim 1 (original): A balanced blue spectrum therapy lighting fixture, the lighting fixture comprising:

a light source; and

a mixture of blue light and white light within the light source having a range between approximately 90% 420 – 490 nm blue light and approximately 10% white light to approximately 10% 420 – 490 nm blue light and approximately 90% white light.

Claim 2 (original): The lighting fixture of claim 1 wherein the blue light is 50% 420 – 490 nm blue light and 50 % white light.

Claim 3 (original): The lighting fixture of claim 1 and further comprising: an array of fluorescent bulbs or L.E.D.'s, the bulbs and L.E.D.'s containing blue light and white light.

Claim 4 (original): The lighting fixture of claim 1 and further comprising:

a single bulb with one side emitting blue light and the other side emitting white light thereby emitting a balanced light.

Claim 5 (original): The lighting fixture of claim 5 wherein one half of the bulb is filled with the 420 - 490 nm blue phosphor and baked and the other side is filled with white phosphor and baked.

Claim 6 (original): The lighting fixture of claim 1 and further comprising:

a switching mechanism for adjusting blue and white scotopic/photopic light levels
thereby affecting melatonin levels..

Claim 7 (original): The lighting fixture of claim 6 wherein in the switching mechanism is selected from the group consisting of electronic, mechanical, and radio frequency activation switching.

Claim 8 (original): The lighting fixture of claim 1 and further comprising: at least one color sleeve positioned over a light source for providing the blue light and white light levels.

Claim 9 (original): The lighting fixture of claim 8 wherein the color sleeves are adjustable.

Claim 10 (original): The lighting fixture of claim 1 wherein the blue light and white light levels are incorporated into fiber optics, one fiber for blue light and one fiber for white light.

Claim 11 (original): The lighting fixture of claim 1 wherein the blue light and white light levels are combined with an after-glow phosphor undercoat.

Claim 12 (original): The lighting fixture of claim 1 wherein the lighting source contains the following scotopic phosphor blend:

| Approx. % | Phosphor Chemical Composition | Phosphor Peak (nm) |
|-----------|--|--------------------|
| 40 | SrO (P ₂ O ₅ B ₂ O ₃): Eu | 478 |
| 22 | Y ₂ O ₃ : Eu | 611 |
| 20 | La PO ₄ : Co, Tb | 544 |
| 18 | Sr ₂ P ₂ O ₇ : Eu | 421 |
| 8 | Ba Mg ₂ Al ₁₆ O ₂₇ : Eu | 450 |
| | | |

Claim 13 (original): The lighting fixture of claim 12 wherein the scotopic phosphor blend comprises phosphors to give light primarily in the 400 - 620 nm range.

Claims 14 – 26 (canceled)